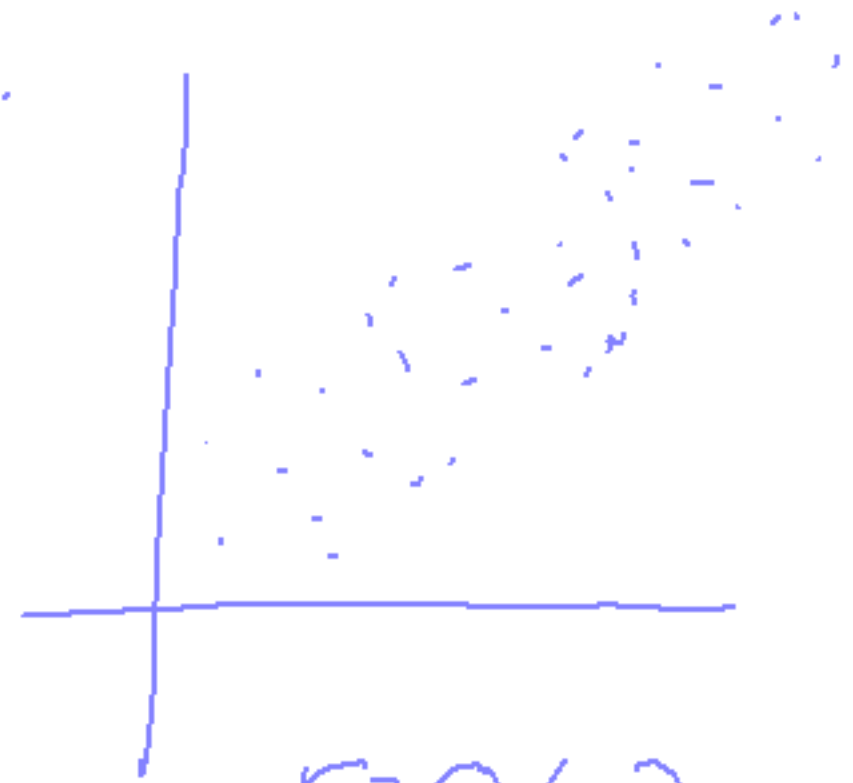


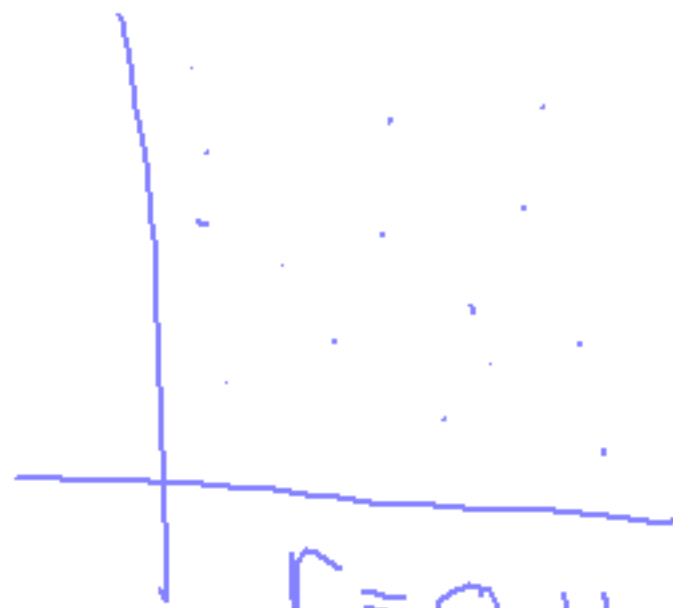
$$r = 0.95$$



$$r = 0.78$$



$$r = 0.62$$



$$r = 0.11$$

* Strength

$$* -1 \leq r \leq 1$$

- closer to 1, -1 \Rightarrow strong linear

- closer to 0 \Rightarrow weak linear

more notes on Correlation.... interpreting the #r

Interpreting

describe (linear)

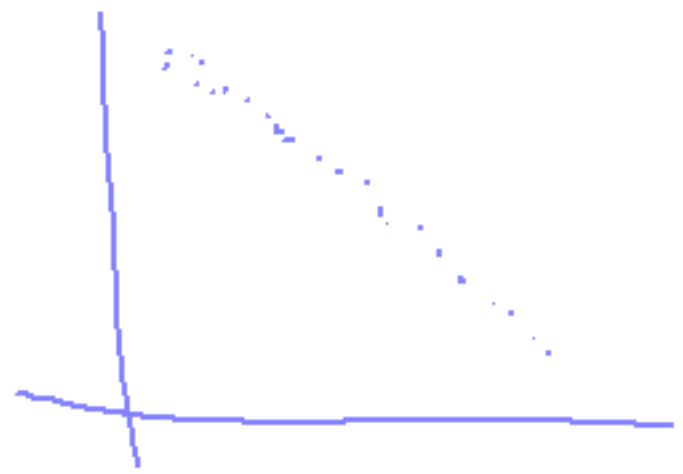
strong

$$r > 0.80$$

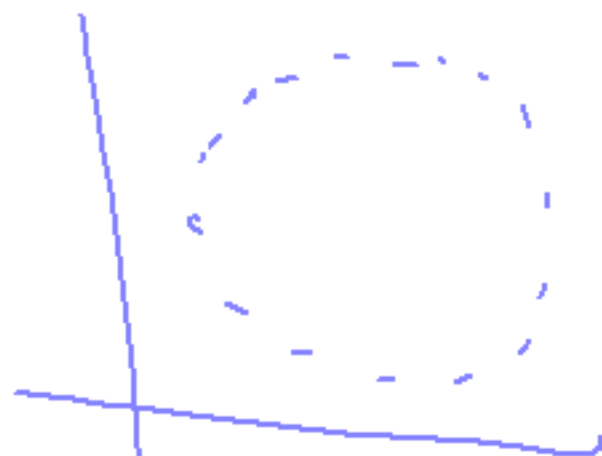
moderate $0.5 < r < 0.80$

weak

$$r < 0.50$$



$$r = -0.93$$



$$r \approx 0.1$$



$$r \approx 0.70$$

a) $r=0.80$

b) 0.40

c) -0.50

d) 0.95

e) $r=0.2$

f) $r=-0.85$

answers to wksht with pictures of graphs & matching correlation

on the "try these" page:

$$\textcircled{4} \quad y = -0.97x + 12.51$$

$$r = -0.611$$

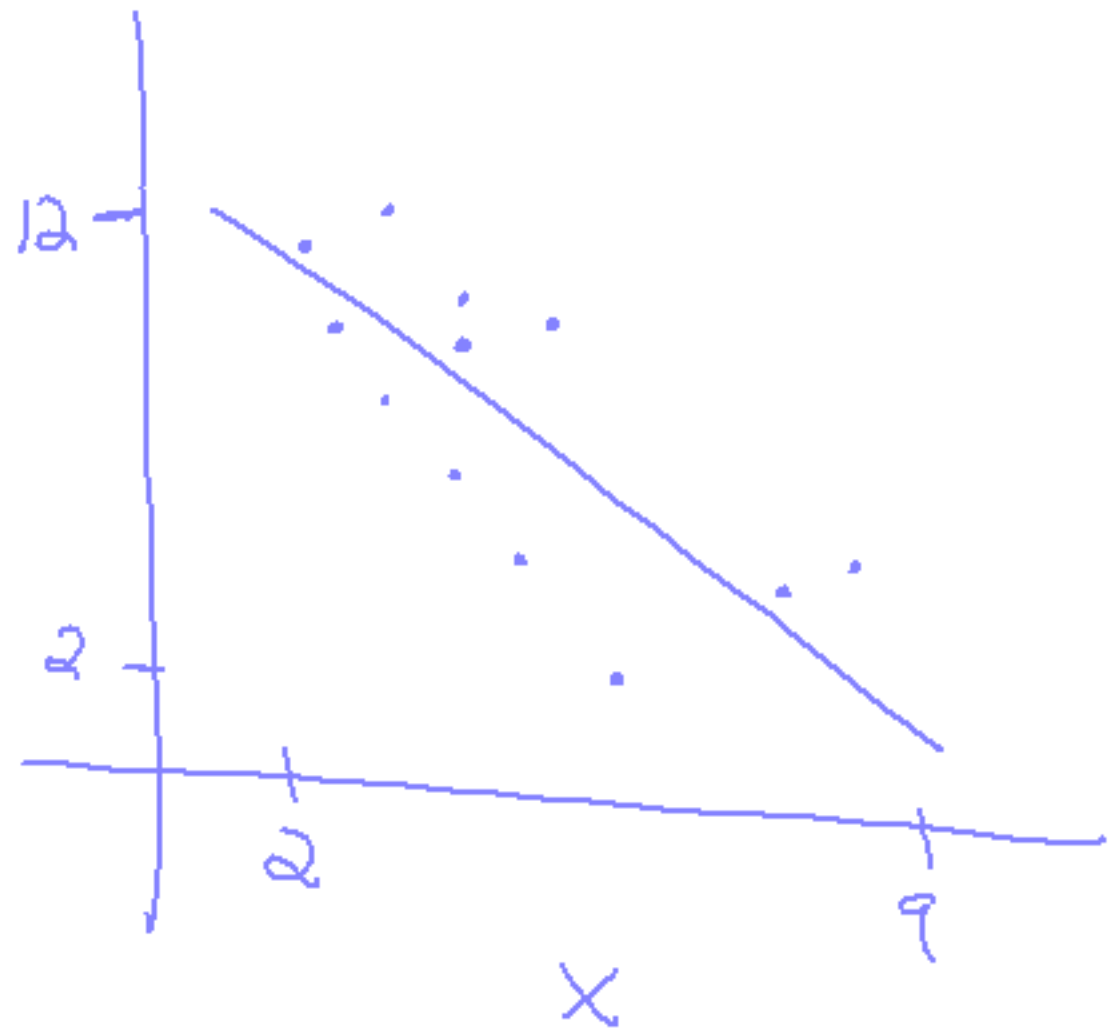
moderate

y

$$y = -0.97(20) + 12.51$$

$$y = -6.896$$

$$y_1(20)$$



$$\textcircled{5} y = 0.721x - 7.131$$

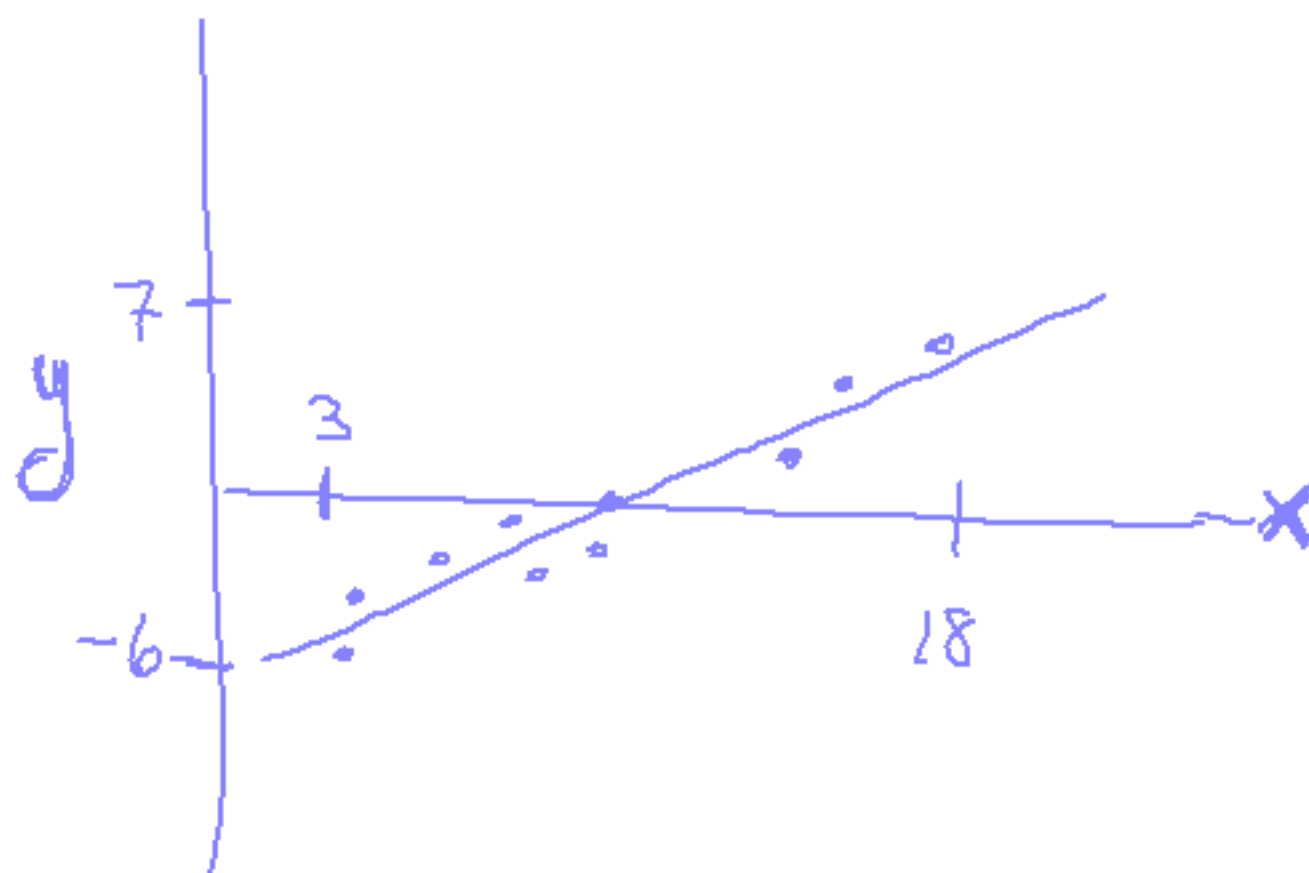
$$r = 0.954$$

strong

$$y = 0.721(32) - 7.131$$

$$y = 15.934$$

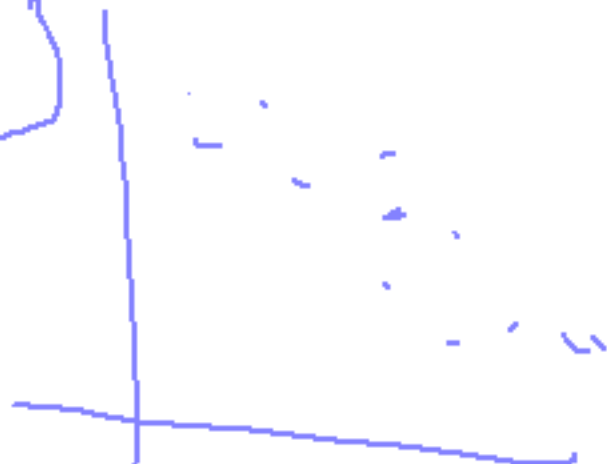
$$Y_1(32)$$



①



②



③

